

## **AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraph containing the figure description for Fig. 5A, which begins on page 10, line 4, with the following amended paragraph:

FIGS. 5A-1 and 5A-2 together form is a diagrammatic representation of a servo burst pattern written according to the self-servo writing steps in FIG. 4; and,

Please replace the paragraph containing the figure description for Fig. 5B, which begins on page 10, line 7, with the following amended paragraph:

FIGS. 5B-1 and 5B-2 together form is another diagrammatic representation of a servo burst pattern written according to the self-servo writing steps in FIG. 4.

Please replace the paragraph that begins on page 26, line 5 with the following amended paragraph:

FIG. 4 shows a detailed flowchart of the steps of self-servo writing (SSW) process according to the present invention. Further, FIGS. 5A-1 and 5A-2 together show[[s]] a diagrammatic representation of an example self-servo writing (SSW) process (such as shown in FIG. 4) according to the present invention. Four tracks, designated as tracks N, N+1, N+2 and N+3, are shown, wherein the track centerlines are defined by servo bursts A, B, C, D in each servo wedge. Track N+1 is shown with SSW positioning error, such that the track centerline is at the incorrect location 150A (i.e., the seams 103d, 103e in track N+1 cause centerline of the track to be offset from its intended location).

According to the present invention, the location of the centerline for track N+1 is effectively moved to the correct location 150B, based on correction information in a

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corresponding RRO field created as described below in conjunction with FIGS. 5B-1 and 5B-2.

Please replace the paragraph that begins on page 26, line 22 with the following amended paragraph:

FIGS. 5B-1 and 5B-2 together show[[s]] a diagrammatic representation of an example self-servo writing (SSW) process (such as shown in FIG. 4) according to the present invention. FIGS. 5B-1 and 5B-2 show[[s]] tracks N, N+1, N+2 and N+3 at corrected centerline positions. The 'inconsequential bursts' serve to isolate adjacent tracks and prevent any correction accumulation.

Please replace the paragraph beginning on page 28, line 15 with the following amended paragraph:

Referring back the steps in the flowchart in FIG. 4 for self-servo writing burst patterns that are shown by the diagrammatic representation in FIGS. 5B-1 and 5B-2, the steps in FIG. 4 refer to writing/trimming servo bursts from bottom to top, in sequence, in FIGS. 5B-1 and 5B-2. In this example, writing the 4-burst pattern is performed in eight steps which represent the four different track modes. The process starts at a track mode (e.g., TM1), and cycles through the track modes depending on the steps in the eight-step process, as shown by the example in FIGS. 5B-1 and 5B-2 and described hereinbelow.

Please replace the paragraph beginning on page 29, line 1 with the following amended paragraph:

To simplify understanding, the steps in FIG. 4 are also shown FIGS. 5B-1 and 5B-2, from bottom to top of FIGS. 5B-1 and 5B-2, in sequence, and each step is aligned with the respective burst writing/trimming operation (with further explanations of each step provided at the bottom of FIG. 5B-2). Referring to the steps in FIG. 4 in conjunction with the diagrams in FIGS. 5B-1 and 5B-2 (starting from track N+3 at the bottom of FIG. 5B-2, and moving from the bottom to the top of FIG. 5B-1), the detailed steps for writing the servo bursts for the four tracks N, N+1, N+2 and N+3 are described, wherein:

Please replace the paragraph that begins on page 32, line 13 with the following amended paragraph:

The calculation of the correction values ERC, is dependent of the servo write technique being used. For example, if in the example of FIGS. 4, 5A-1 & 5A-2, and 5B-1 & 5B-2, a one-pass trimmed process is used to write the servo bursts, the ERC calculation is track mode dependent according to Table 1 below, wherein x is a positive integer: